

\* SWBAT observe what happens to acceleration as mass goes up  
(keeping the same pull)

Sep 6-2:31 PM

CP: HALF SHEET (OR YOUR OWN PAPER)

QUICK WRITE

WHAT IS SOMETHING ABOUT  
SCHOOL (OR THIS CLASS)  
THAT MAKES YOU STRESSED?

Oct 21-7:55 AM

Centering...

Welcome!!!

H. Leslie Grebe

See Leslie to  
schedule make-up  
test...

- \* Pick up:  
- slip of paper (for later)

## Opening Question:

Aunt Minnie is cruising down the highway at 80 mph east when she spots a cop car. Over the next 3 seconds she slows down until she is going 50 mph east.

Acceleration is...  $\frac{\Delta v}{\Delta t} = \frac{-30 \text{ mi/hr}}{3 \text{ s}} = -10 \text{ mi/hr/s}$

Can you get the 2 pieces we need from the description?

$\Delta v = -30 \text{ mph}$   $\Delta t = 3 \text{ s}$

What is Aunt Minnie's acceleration?

Sep 7-7:04 AM

## Catchy Physics Phrases...

Newton's 1st Law: REST TEND TO STAY AT REST  
(Objects at... IN MOTION TEND TO STAY IN MOTION

Inertia is ... MATTER RESISTING CHANGES IN MOTION

Mass is ... HOW WE MEASURED INERTIA

ACCELERATION

Oct 25-7:24 AM

## Big question:

What is the relationship between  
**mass** and **acceleration**???

\* How could we test this out?

Roles:

- timer
- recorder
- equipment manager

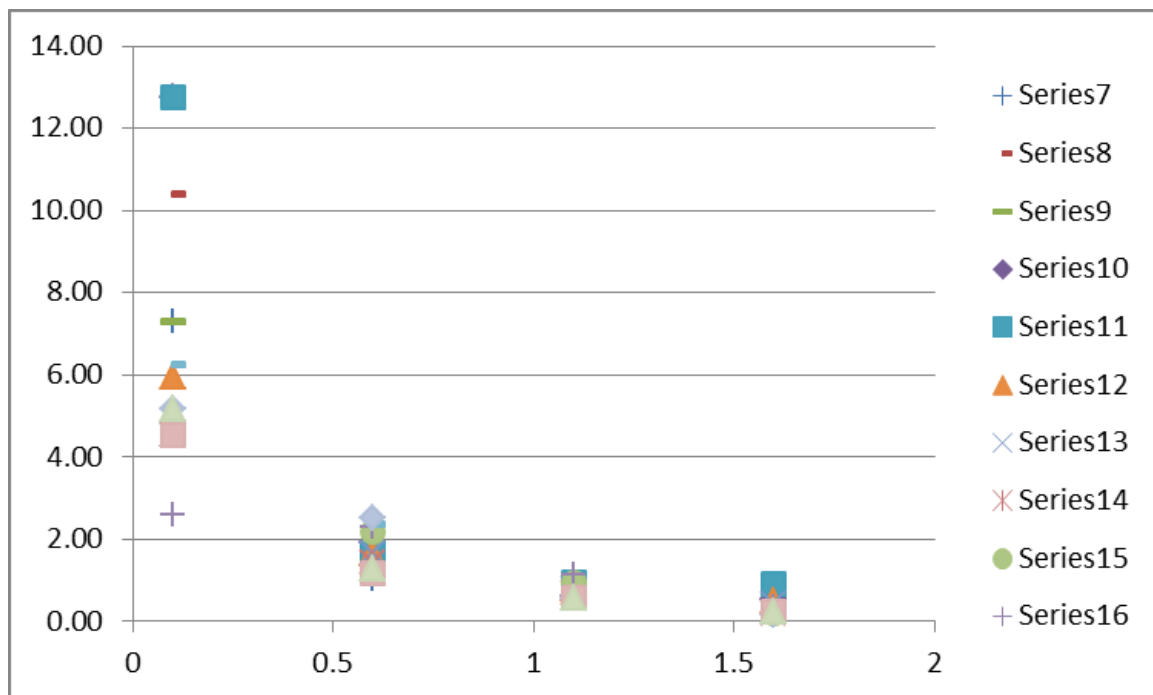
TPS:  
TIME w/  
STOPWATCH  
- EMPTY  
+ 500g  
+ 1000g  
+ 1500g

BACK TO  
BACK OF  
TAPE  
  
3 TRIALS

Make a prediction... **HEAVIER → LOW TIMES**

Let's graph it...

Oct 25-7:25 AM



Oct 21-1:23 PM

What do we see?

MORE MASS  $\Rightarrow$  LESS  
ACCELERATION

Oct 25-7:28 AM

### Daily 3 Questions

- \* Every day except test/project days
- \* 3 Questions on the topics of the day
- \* Main source of daily points
- \* I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1. How many trials did we do at each mass?

3-4

2. We can figure out speed and acceleration because we measured distance and TIME .

3. More mass means

A. more acceleration

☒ B. less acceleration

C. same acceleration

Oct 8-6:48 AM